

PIXEL STRUCTURE FOR A LIQUID CRYSTAL ON SILICON DISPLAY

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ABSTRACT OF THE DISCLOSURE

A pixel structure for an LCoS display comprises a pixel electrode, an insulator formed on the pixel electrode by CMP, reflectors
10 formed on the insulator by micro-electro-mechanical process, a passivation formed on the reflectors and the insulator by CMP, a conductor on the passivation, a layer of liquid crystal above the conductor, and a glass plate having common electrode thereon above the layer of liquid crystal. Each of the reflectors has an oblique metal
15 plate, gratings or a planar metal plate with multilayer coating of different refractive indexes thereon, so as to reflect an oblique incident light for a reflective light produced at specific angles by diffraction or refraction and out of the glass plate.